

Amendments to the Claims

1. (Currently Amended) A Terrestrial Radio Access Network for the Universal Mobile Telephone System (UTRAN) comprising at least one first Radio Network Controller and at least one Node B associated with said first Controller across an Iub interface, said first Controller and said Node B operating Internet Protocol, comprising, when there is a requirement for signaling and/or data traffic to cross the Iub interface, the first Radio Network Controller is arranged to set up at least one IP tunnel across the Iub interface ~~and wherein transport channel frames containing~~ signaling and data information are encapsulated ~~in~~ and multiplexed into IP packets.

2. (Original) A UTRAN according to Claim 1 in which the first Controller is further arranged to communicate with a further Radio Network Controller across an Iur interface, in which, when there is a requirement for signaling and/or data traffic to cross the Iur interface, the first and the further Radio Network Controllers are arranged to set up at least one IP tunnel across the Iur interface, and signaling and data information are encapsulated in IP packets.

3. (Original) A UTRAN according to Claim 1 in which each IP tunnel carries at least one of the transport channels of the Universal Mobile Telephone System.

4. (Original) A UTRAN according to Claim 3 in which the IP tunnel carries at least two transport channels which are multiplexed.

5. (Original) A UTRAN according to Claim 4 in which spare bits after the transmission of the Session Data Unit length in the data frame of each IP packet are arranged to carry the identity of at least two transport channels.

6. (Original) A UTRAN according to Claim 4 in which a one byte field in the common header structure of the channel frames is allocated to carry the identity of the at least two transport channels.

7. (Original) A UTRAN according to Claim 3 in which each IP tunnel is dedicated to a specific transport channel.

8. (Newly Added) A Radio Network Controller for use in a Terrestrial Radio Access Network for the Universal Mobile Telephone System (UTRAN) comprising at least one said Radio Network Controller and at least one Node B associated with said Radio Network Controller across an Iub interface, said Radio Network Controller and said Node B operating Internet Protocol, comprising, when there is a requirement for signaling and/or data traffic to cross the Iub interface, the Radio Network Controller is arranged to set up at least one IP tunnel across the Iub interface wherein transport channel frames containing signaling and data information are encapsulated and multiplexed into IP packets.

9. (Newly Added) A Node B for use in a Terrestrial Radio Access Network for the Universal Mobile Telephone System (UTRAN) comprising at least one first Radio Network Controller and at least one said Node B associated with said first Controller across an Iub interface, said first Controller and said Node B operating Internet Protocol, comprising, when there is a requirement for signaling and/or data traffic to cross the Iub interface, the Node B is arranged to communicate with the first Radio Network Controller over at least one IP tunnel across the Iub interface wherein transport channel frames containing signaling and data information are encapsulated and multiplexed into IP packets.